

AMENDMENTS TO THE SPECIFICATION:

Please replace paragraph [0015] with the following:

FIG. 5 is a perspective [solid] view of the extractor of the present invention.

Please replace paragraph [0016] with the following:

FIG. 6 is a perspective [solid] view of the cylinder used with the present invention.

Please replace paragraph [0017] with the following:

FIG. 7 is a perspective [solid] view of an embodiment of an extractor and cylinder of the present invention.

Please replace paragraph [0018] with the following:

FIG. 8 is a perspective [solid] detail view of a portion of the cylinder assembly of the present invention.

Please delete paragraph [0019] as follows:

[FIG. 9 is a perspective solid detail view of a portion of the cylinder assembly of the present invention.]

Please replace paragraph [0021] with the following:

Referring to FIG. 1, an exemplary cylinder assembly includes a cylinder 8 having its forward end toward the right, as indicated by an arrow 3, may be fitted with an extractor plate 10 of the type embodying this invention. Prior art extractor designs for such cylinder assemblies include extractor plates that fit within the recess 13 of cylinder 8 [2] are shown in FIGS. 2 and 3. Similar to the present invention, prior art extractors have an extractor plate 10 disposed adjacent the rear end of a tubular stem 12 and includes a plurality of radially extending arms 14. The stem 12 is slidably disposed within a stem bore 16 that extends axially through the cylinder 8.

The stem bore 16 includes a projection or lug 20 adapted to interfit with a longitudinally extending groove 22 in the stem 12 to limit movement of the stem in the cylinder 8 [18] to the longitudinal or axial direction. As mentioned above, in prior art extractors [T]the after-end of the cylinder 8 includes a shallow recess 13[24] adapted to receive therein the extractor plate 10 such that the upper surface of the extractor plate, including its arms 14, will be generally flush with the peripheral rear surface 25 of cylinder 8 about the recess 13 [24]. Because it is not feasible to hold close enough tolerances between the lug 20 and the elongated slot 22, additional mechanisms must be provided to align such extractor plates with the chambers of the cylinder.

Please replace paragraph [0022] with the following:

As shown in FIG. 2, prior art extractors employ lugs or pins 17 to ensure circumferential alignment of the cylindrically curved surfaces 19 and 40 (FIGS. 2 and 3 respectively) of the arms with the [bores 3] cartridge receiving chambers 31, also referred to as bores or cylinder bores, of the cylinder 8 (See FIG. 6) so that the curved edge surfaces 19 and 40, will fit under the corresponding rim portions of cartridges 100 (See FIGS. 7, and 8 [and 9]). A more recent prior art arrangement utilizes arms having radially asymmetrical rectilinear or straight outer edges 44 and 48, as shown in FIG. 3, to ensure circumferential alignment. This arrangement eliminates the need for lugs or pins as present in the extractor shown in FIG. 2. In both prior art arrangements however, the arc length of the curved surfaces of the arms 19 and 40 (FIGS. 2 and 3 respectively) is less than half the circumference of the cartridge.

Please replace paragraph [0023] with the following:

In the present invention, shown in FIGS. 4a, 4b, 4d, 5, 7, 8 and 9, the extractor plate 10 includes a plurality of arms 14, 15[16] that extend radially from the inner or hub portion of the plate secured to the stem 12. Each arm 14 and 15[16] has radiused or curved side edges which combine to form an inner surface 40 between adjacent arms (FIG. 5). The inner surface substantially conforms to the shape of the cartridge receiving chambers cylinder bores. The inner portion may be a continuous curved

concave surface or may be discontinuous concave surface with cut-away portions or teeth (not shown). In either case, the arc length of the inner surface 40 exceeds half the circumference of a cartridge 100 disposed within the cartridge receiving chambers [cylinder bores] thereby increasing the area of engagement of the extractor under the rim of the cartridge 100.

Please replace paragraph [0024] with the following:

Referring to FIGS. 4a and 5, each arm 14 includes a radially extending longitudinal axis a and is defined by radiused side edges which form a concave inner surface 40. In a preferred embodiment, two of the arms 15 [16] have convex outer edges or end portions 82, the remainder of the arms 14 have concavely curved outer edges or end portions 80.

Please replace paragraph [0025] with the following:

Additionally, as shown in FIGS. 4b and 4d, the cartridge receiving chambers 31[cylinder bores-3] of the present invention are entirely disposed within the cylinder 8. Additionally, the concave inner surface 40 of the extractor 10 features beveled edges 56 (FIG. 4d). The edges 56 are beveled at an angle β relative to a central axis a of a cylinder bore. Only the edge contacts the rim of the cartridge and [the] does not form a portion of the wall of a cartridge receiving chamber[cylinder bore]. Because in the present invention the extractor does not form any part of the wall, a rim fire case can expand outwardly without affecting the extractor, thereby providing for substantially easier removal of the spent rim fire cartridges. In the preferred embodiment, β is approximately 60 degrees.

Please replace paragraph [0028] with the following:

Referring again to FIG. 1, disposed within the stem 12 of the extractor is a center pin 52 about which the cylinder 8 is rotatable. A center pin spring 51 is fitted about the forward end portion of the pin 52 and the inner or rear end of the spring 51 is seated against a flange 55 on the pin 52. The rear end of the pin 52 and the

spring 51 are fitted into the bore of the stem 12 and an extractor spring 58 and a collar 60 adapted to fit within the forward end of spring 58 fitted about the outer diameter of the stem 12 and disposed within the bore 16 of the cylinder 8. The flange 55 on pin 50 is engaged with a shoulder within the stem 12 adjacent its rear end. The forward end portion of the center pin 52 and spring 51 are received into the open end of the extractor rod 54 and the rear end 61 of the extractor rod 54 [serves as a seat for the 45 of the spring 51]. The rear end portion of the rod 54 is threaded, as at 57, for screw fitting into the internally threaded forward end portion of the stem 12 to complete the assembly. Further, the rod 54 being of stepped outer diameter includes a shoulder 68 which serves as a seat for a rim or flange 67 of the collar 60 disposed within the forward end of the extractor spring 58. The outer end of the spring 58 is seated against the forward surface of the extractor plate 10.

AMENDMENTS TO THE DRAWINGS:

In response to a Notice to File Corrected Application papers, the Applicant has submitted replacement drawings that comply with 37 C.F.R. 1.84 and 1.121. Additionally, the Applicant has cancelled FIG. 9, as it is duplicative of FIG. 8. The replacement drawings are submitted herewith.